

ID	MAP WBS	Risk Description	Potential Impact on Project	Risk Score			Ownership	Proposed Action	Post-Action Risk Score			Comment/Conclusion	Estimated Cost of Mitigation				Estimated Mitigation Duration (Working Days)	Estimated Mitigation Probability (%)	Weighted Costs (K\$)	Weighted Durations (Working Days)	Targeted Retirement Date	Status (Active / Retired)
				L	I	LxI			L	I	LxI		SWF (K\$)	M&S (K\$)	OH (K\$)	Total (K\$)						
1	3.2.9.11	Additional magnetic issues found with design and surface treatment of MICE 201 MHz Couplers. Note, original prototype cavity showed no adverse B-field impact, so this risk is restricted to the coupler design.	Delay of readiness of MICE Step 3pi/2 production couplers and full RF module.	2	4	8	MAP	Analyze adverse behavior, evaluate and implement coupler design and surface treatment changes required.	1	3	3	Given that the original prototype tested to ~10MV/m in Lab G magnet field, the likelihood of having an effect that adversely impacts the minimal operating configuration is considered very modest since significant design improvements to the coupler/window design have been implemented and fully simulated.	50	25	55.75	130.75	80	30%	39.23	24	4/16/2015	Active
2	5.1.1.6.1.9	RF Module #1 & #2 Assembly	Likely impact is a months-scale delay due to module fit-up issues	2	2	4	MAP	Execute design and/or fabrication corrections at LBNL.	1	1	1	Design now directly derives from the SCTS prototype so all assembly issues fully tested.	25	50	36.5	111.5	40	30%	33.45	12	3/29/2017	Active
3	5.3.1.1.1.31	Step IV Partial Yoke Shielding Integration problems.	Likely impact is a few week delay due to need to re-machine large parts.	1	2	2	MAP	Execute design and/or fabrication corrections at vendor.	1	1	1		10	0	10	20	40	10%	2.00	4	12/30/2014	Active
4	5.3.1.2.2.7	MICE 3pi/2 Magnetic Shielding 2 Week Review Window	Delay in construction and delivery of MICE Step 3pi/2 shielding.	3	1	3	MAP	Update design to satisfy requirements of MICE Step 3pi/2 operating configuration and then launch fabrication. Impact would be of order 1 month of re-engineering.	1	2	2	Minimal impact anticipated in Step 3pi/2 construction schedule due to significant slack in shielding construction schedule.	50	0	50	100	20	50%	50.00	10	4/14/2015	Active
5	5.3.1.2.3.6	Step 3pi/2 Partial Yoke Shielding Integration problems.	Likely impact is a multi-month delay due to need to re-machine large parts.	1	2	2	MAP	Execute design and/or fabrication corrections at vendor.	1	2	2		25	50	36.5	111.5	40	10%	11.15	4	3/29/2017	Active
6	5.5.2.1.3	RF Module #1 & #2 Integration Issues at RAL.	May require design changes or corrections. Potentially results in months-scale field engineering delays.	2	4	8	MAP	Correct all identified issues (eg, vacuum performance) in the field.	1	2	2	SCTS test in the MTA helps to define the necessary operation specifications and allow them to be dealt with in advance.	150	75	167.25	392.25	80	30%	117.68	24	3/29/2017	Active
7	5.5.2.2.3	Spectrometer Solenoid integration and commissioning issues at RAL.	Delay of MICE Step IV commissioning and experimental operations.	3	4	12	MAP	Assess failure and repair magnet (s). Likely delay of > 3 months in commissioning schedule.	1	3	3	Magnets have been fully tested in a range of configurations in the US. The principal concern is that damage might have occurred during shipping. However, shock sensors and monitoring did not indicate any shipping issues.	200	100	223	523	80	50%	261.50	40	8/3/2015	Active
8	5.5.2.3.3	Step IV Partial Yoke Shielding Fit-Up Issues at RAL	Likely impact is a multi-month delay due to need to re-machine large parts.	1	4	4	MAP	Re-do integration engineering for partial yoke solution in MICE Hall.	1	3	3	Decision to do full fit-up of components prior to shipping to UK largely mitigates this risk.	25	50	36.5	111.5	80	10%	11.15	8	8/3/2015	Active
9	5.5.2.4.3	Step 3pi/2 Partial Yoke Shielding Integration problems.	Likely impact is a multi-month delay due to need to re-machine large parts.	1	4	4	MAP	Re-do integration engineering for partial yoke solution in MICE Hall.	1	3	3	Decision to do full fit-up of components prior to shipping to UK largely mitigates this risk.	25	50	36.5	111.5	80	10%	11.15	8	3/29/2017	Active
Totals for All Items (Active Risks Only)													560	400	652	1612			537.3	134		

Legend:		
Symbol	Definition	Range
L	Likelihood	1-5
I	Impact	1-5

Likelihood Translation:	
Rank	Prob (%)
1	10%
2	30%
3	50%
4	70%
5	90%

Impact Translation:	
Rank	Work Days
1	1-20
2	21-40
3	41-80
4	81-120
5	>120